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? Title: **JP10015388A2: CATALYST FOR HYDROGENATION REACTION, ITS MANUFACTURE, AND HYDROGENATION REACTION USING THE C**

? Country: **JP Japan**

? Kind: **A**

? Inventor: **KUSAKA HARUHIKO;
TAKAHASHI HIROKO;
YOKOTAKE ICHIRO;**

? Assignee: **MITSUBISHI CHEM CORP**
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? Published / Filed: **Jan. 20, 1998 / June 28, 1996**

? Application Number: **JP1996000169428**

? IPC Code: **[B01J 23/62](#); [B01J 23/40](#); [B01J 23/64](#); [B01J 23/66](#); [B01J 23/70](#);
[B01J 23/89](#); [B01J 27/185](#); [B01J 27/24](#); [C07C 27/06](#); [C07C 29/153](#);
[C07C 31/20](#); [C07B 61/00](#); [C07D 307/08](#);**

? Priority Number: **June 28, 1996 JP1996000169428**

? Abstract:

PROBLEM TO BE SOLVED: To provide a catalyst having metals carried on a carbonaceous carrier with the metals carried uniformly even in the inside of the carrier, a process of producing the same, and particularly a process of producing 1,4-butanediol and/or tetrahydrofuran with a high efficiency in a high yield under relatively mild reaction conditions by a catalytic hydrogenation reaction wherein, as a raw material, maleic anhydride, maleic acid, succinic anhydride, succinic acid, γ -butyrolactone, or a mixture thereof is used.


SOLUTION: There are provided a catalyst having carrying components produced by combining at least one metal selected from among Group VIII metals of the periodic system, and as required, at least one element selected from among the elements of Groups IIIa, IVa, Va, VIa, VIIa, Ib, IIb, IIIb, IVb, Vb, and VIb, and deposited by impregnation of solution of 5C or lower carboxylic acid or a 5C or lower carbonyl compound into a carbonaceous carrier, and further provided a process of producing the same, and a process of the hydrogenation reaction of carboxylic acids by using the catalyst.

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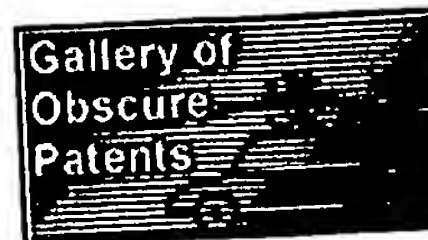
? Family: **None**

? Forward
References:

PDF	Patent	Pub.Date	Inventor	Assignee	Title

	US6294703	2001-09-25	Hara; Yoshinori	Mitsubishi Chemical Company	Process for the manufacture of cycloalkyldimethanol
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Other Abstract Info: CHEMABS 128(12)140456Q CAN128(12)140456Q DERABS C98-138989 DERC98-1.



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10015388 A



(19)

(11) Publication number: **1**

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PATENT ABSTRACTS OF JAPAN(21) Application number: **08169428**(51) Intl. Cl.: **B01J 23/62 B01J 23/40 B01J 23/66 B01J 23/70 B01J 23/89 B01J 27/24 C07C 27/06 C07C 31/20**(22) Application date: **28.06.96**

(30) Priority:

(43) Date of application publication: **20.01.98**

(84) Designated contracting states:

(71) Applicant: **MITSUBISHI CHEM CO**(72) Inventor: **KUSAKA HARUHIKO
TAKAHASHI HIROKO
YOKOTAKE ICHIRO**

(74) Representative:

(54) CATALYST FOR HYDROGENATION REACTION, ITS MANUFACTURE, AND HYDROGENATION REACTION USING THE CATALYST

(57) Abstract:

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